WHAT IS CLAIMED IS:

1. An image processor comprising:

color conversion means for converting an input signal to color signals of at least four colors;

gamma correction means for performing gamma correction on said color signals;

binarization means for binarizing said color signals through comparison with a threshold value;

superimposing means for superimposing a color signal of at least one color out of said binarized color signals on another color signal to convert the signals to a superimposed color signal;

logical operation means for performing a logical operation previously defined for an image of three or fewer colors on said superimposed color signal; and

separation means for separating color signals as an output of said logical operation means into separated color signals of at least four colors.

2. The image processor according to claim 1, wherein said binarization means comprises a threshold matrix having a cyclicity for binarization and that said separation means determines whether said superimposed signal has the cyclicity of said threshold matrix used by said binarization means and

generates separated color signals based on the determination result.

3.   The image processor according to claim 1, wherein
the output signals of said color conversion means correspond
to four colors cyan, magenta, yellow and black, that said
superimposing means obtains the logical sum of a black pixel
with pixels of cyan, magenta and yellow to output said
superimposed color signal as three colors cyan, magenta and
yellow, and that said separation means separates an image of
cyan, magenta, yellow and black from said pixels of cyan, magenta
and yellow.

4.   The image processor according to claim 3,
characterized in that, when the input signal to said color
conversion means is achromatic, said image processor outputs
only black while setting the value of cyan, magenta and yellow
to 0.